Installing AspenTech® InfoPlus.21™ Historian

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Installing AspenTech InfoPlus.21 Historian

Introduction

AspenTech InfoPlus.21 Historian provides storage for historic trend and message data. This chapter describes how to:

- install the InfoPlus.21 server
- install an InfoPlus.21 client
- upgrade OEM Historian to InfoPlus.21 Historian
- upgrade the InfoPlus.21 server license
- uninstall the InfoPlus.21 server
- uninstall an InfoPlus.21 client
Key Concepts

InfoPlus.21 Historian Server Installation

The InfoPlus.21 Historian server includes the OEM Historian database, configuration files, and programs to interface to the database. The server can be installed only on a Windows NT® 4.0 server or Windows NT workstation with Service Pack (SP) 6a platforms. Refer to Figure 1.

InfoPlus.21 Historian Client Installation

The InfoPlus.21 Historian client includes the programs to allow client applications to access data from the database. The InfoPlus.21 client software requires one Personal Computer (PC) in the network to be installed with the InfoPlus.21 server. The InfoPlus.21 Historian client can be installed on Windows NT server, Windows NT workstation with SP 6a, or Windows® 98 Second Edition platforms. Refer to Figure 1.

Licenses

InfoPlus.21 Historian is licensed for a maximum number of tags in the database. Three sizes of licenses for installation are available. A tag represents the name of the object attribute for which trend data is collected. For example, if an Analog Input is the object with attributes of Value and Status, each of those attributes is a tag. Customers must order the InfoPlus.21 Historian component by size. The license file restrictions are listed below:

- small system 1,000 tags or less
- medium system 10,000 tags or less
- large system 50,000 tags or less

IMPORTANT: You need the license disk to install InfoPlus.21 on a PC.
Standalone Configuration

For archiving trend data from an N1 network, the N1 Trend Collector can run on a remote PC with M-Historian. In this standalone configuration, only the Infoplus.21 database manager and required support programs (M-Password, M-Authorize, and Trend Collector) are loaded on the PC. The standalone PC requires M-Authorize to authorize the Infoplus.21 component and to select the licensed tag size.

Select Infoplus.21 Historian as the OEM Historian in the M-Authorize License View dialog box. No Person Machine Interface (PMI) or Metasys® Application Enabler (MAE) software is required on this PC.

This is not considered a separate M5 installation. Use the M5 installation CD from the same project to load the support components.

Note: For archiving trend data from an N30 site, M-Historian software must be installed with M3 or M5 Workstation software on the same PC.
Figure 1: M-Historian Installation Overview
Detailed Procedures

Installing the InfoPlus.21 Server

Note: The InfoPlus.21 server can be installed only on Windows NT 4.0 server or Windows NT workstation platforms.

To install the InfoPlus.21 server:

1. Insert the M-Historian CD into the CD-ROM drive. The Welcome and Software License Agreement dialog boxes appear.

Note: If the install does not automatically start, on the Windows Start menu select Run and type d:\setup.exe.

2. Read and accept the license. The Select Installation type dialog box appears (Figure 2).

Figure 2: Select Installation Type Dialog Box
3. Select Server and click Next. The Database Path Selection dialog box for Trend appears (Figure 3).

Figure 3: Database Path Selection Dialog Box for Trend
4. Select the database location to install the trend database files and click Next. The Database Path Selection dialog box for Messages appears (Figure 4).

![Database Path Selection Dialog Box for Messages](image)

**Figure 4: Database Path Selection Dialog Box for Messages**

5. If you are installing InfoPlus.21 on a Global Workstation (GWS), select the database location for the message log database files and click Next. If you are not installing on a GWS, leave the default and click Next. An information screen appears (Figure 5). The message explains the InfoPlus.21 installation is starting.

![Information Screen](image)

**Figure 5: Information Screen**

6. Do not reboot when prompted at the end of the install. Click OK. The Welcome and Software License dialog boxes appear.
7. Read and accept the license. The Enter License Keys Disk dialog box appears (Figure 6).

![Figure 6: Enter License Keys Disk Dialog Box](image)

Insert the License Keys Disk in the 3.5 inch floppy disk drive and click Next. You can select a new drive or path by clicking Browse.
8. Insert the license floppy disk into the PC and browse to your floppy drive directory. Click Next. The Select Components dialog box appears (Figure 7).

![Select Components Dialog Box](image)

Figure 7: Select Components Dialog Box

9. Use the Browse button to select a destination directory. We recommend leaving the default directory.

**IMPORTANT:** Leave the default that has all the components selected.

10. Click Next. The Select Program Folder dialog box appears (Figure 8).
11. Enter a program folder name. Click Next. The Enter GCS and SQLplus Information dialog box appears (Figure 9).
12. Leave the defaults and click Next. The Start Install dialog box appears (Figure 10).

![Start Install Dialog Box](image)

**Figure 10: Start Install Dialog Box**

13. Click Next. The Enter User Name and Password dialog box appears (Figure 11).
14. Enter the Windows NT system logon user name and password to create the Group 200 Windows NT service task.

Note: This user must have Windows NT Administrator and Group 200 rights to run InfoPlus.21 Historian.

15. Click Next. After the InfoPlus.21 installation completes, the Setup Complete dialog box appears (Figure 12).

Figure 11: Enter User Name and Password Dialog Box

Please type in an user name and password. Setup requires you to confirm a password for this user account. Remember, passwords are case sensitive.

User name: HOL02759\Administrator
Password: 
Confirm Password: 

Next >
WARNING: Possible Data Loss. Do not reboot your computer. The InfoPlus.21 Historian will not work. If you reboot here, you must reinstall M-Historian.

16. Select No. Click Finish. The Setup Complete dialog box appears (Figure 13).
17. Click Yes to reboot. The M-Historian Configurator starts.

Note: When you reboot, the Please Wait message (Figure 14) may appear for up to 10 minutes while the M-Historian Configurator starts. If the M-Historian Configurator does not start automatically, select the Windows Start menu > Programs > Startup > M-Historian Configurator. M-Historian Configurator Welcome dialog box appears.

18. Click Next. The Advanced Trend Database Configuration dialog box appears (Figure 15).
Figure 15: Advanced Trend Database Configuration Dialog Box
19. Fill in the fields using Table 1 and click Next. A question similar to Figure 16 appears.

### Table 1: Trend Database Configuration Dialog Box Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Tags to be used</td>
<td>Number of tags to save in the Historical database. The maximum value depends on the license type purchased (1,000, 10,000, or 50,000).</td>
</tr>
<tr>
<td>Average Sample Rate</td>
<td>Average samples expected per tag per day. This value is calculated by adding total samples planned to be saved for each tag per day, and dividing the value by total tags collecting samples. The maximum is 86,400 samples.</td>
</tr>
<tr>
<td>No. of days Data Online</td>
<td>Days the user plans to keep the data on line. The maximum is 3660 days.</td>
</tr>
<tr>
<td>File Set Duration</td>
<td>Duration of days to keep the data in each file set. The database switches to next file set when this time duration is completed. The maximum is 720 days.</td>
</tr>
<tr>
<td>Number of File Sets</td>
<td>Calculated from dividing data online value by file set duration and adding 2 to keep 2 more file sets extra. This value should be in the range of 5 to 30.</td>
</tr>
<tr>
<td>File Set Size</td>
<td>Calculated from multiplying total tags, average samples per tag per day, file set duration, and each sample size. This value should be in the range of 1 MB to 1 GB.</td>
</tr>
<tr>
<td>Total Disk Space Required</td>
<td>Total space required. (File set size x number of file sets).</td>
</tr>
<tr>
<td>Free Disk Space Available*</td>
<td>Taken from the system free disk space.</td>
</tr>
<tr>
<td>Total Memory Required</td>
<td>Total memory allocated by InfoPlus.21 Historian for data storage.</td>
</tr>
</tbody>
</table>

* The Free Disk Space Available listed in the dialog box may be incorrect for a hard disk greater than 2 GB. Click Next to continue and InfoPlus.21 Historian will use the full disk capacity. It will list the correct free disk space for a hard disk less than 2 GB.

![Figure 16: Disk Space Question](image)

This configuration of Historian Database may require 902343 KBytes of Disk space from the drive C. of 2097151 KBytes free space. These values are calculated from the values entered for database configurations. The database will increase in size only with the actual samples stored in it. Do you want to continue with the installation?

[Yes] [No]

20. Click Yes. The Start Copying Files dialog box appears (Figure 17).
Click Next. When the installation is finished, you may be prompted to reboot the PC.
Installing an InfoPlus.21 Client

Note: The InfoPlus.21 Historian client can be installed on Windows NT server, Windows NT workstation with SP 6a, or Windows 98 platforms.

To install an InfoPlus.21 client:

1. Insert the M-Historian CD into the CD-ROM drive. The Welcome and Software License Agreement dialog boxes appear.

   Note: If the install does not automatically start, on the Windows Start menu select Run and type d:\setu.exe.

2. Read and accept the license. The Select Installation type dialog box appears (Figure 2).

3. Select Client. The Enter Information dialog box appears (Figure 18).

   Figure 18: Enter Information Dialog Box

4. Enter the computer name on which the InfoPlus.21 server is installed. (To find the computer name, use Network Neighborhood)

5. Click Next. An information screen appears (Figure 5).

   Note: The message explains the InfoPlus.21 installation is starting.

   Do not reboot when prompted at the end of the install. Click
OK. The Welcome and Software License dialog boxes appear.

6. Read and accept the license. The Enter User Information dialog box appears (Figure 19).

![Figure 19: Enter User Information Dialog Box](image)

7. Enter your name and company name. Click Next. The Enter License Keys Disk dialog box appears (Figure 6).
8. Browse to the d:\license directory (where d is the CD-ROM drive). Click Next. The Select Components dialog box appears (Figure 20).

![Select Components Dialog Box](image)

**Figure 20: Select Components Dialog Box**

9. Select a destination directory using the Browse button. We recommend leaving the default directory.

   **IMPORTANT:** Leave the default that has all the components selected.

10. Click Next. The Select Program Folder dialog box appears (Figure 21).
11. Select the program folder name and click Next. The Enter SQLplus Information dialog box appears (Figure 22).

Figure 21: Select Program Folder Dialog Box

Figure 22: Enter SQLplus Information Dialog Box
12. Leave the default host name (defined in Step 4) and service number. Click Next. The Select Language dialog box appears (Figure 23).

![Figure 23: Select Language Dialog Box](image)

13. Select any additional languages you want to install. Click Next. The Select Data Source dialog box appears (Figure 24).
14. Leave the default with InfoPlus.21 selected. Click Next. The Start Install dialog box appears (Figure 25).
15. Click Next. The Setup Complete dialog box appears (Figure 26).

![Setup Complete Dialog Box](image)

**Figure 26: Setup Complete Dialog Box**

- **WARNING:** **Possible Data Loss.** Do not reboot your computer. The InfoPlus.21 Historian will not work. If you reboot here, you must reinstall M-Historian.

16. Click No. Click Finish. The Setup Complete dialog box appears (Figure 13).

17. Click Yes to reboot. The M-Historian Configurator starts.
Upgrading OEM Historian to InfoPlus.21 Historian

To upgrade OEM Historian to InfoPlus.21 Historian:

1. Back up the OEM Historian database.
2. Insert the M-Historian CD into the CD-ROM drive. The upgrade question in Figure 27 appears.

![Figure 27: Upgrade Question](image)

3. Click Yes. The Welcome and Software License Agreement dialog boxes appear. Read and accept the license. A message appears prompting you to insert the OEM Historian CD (Figure 28).

![Figure 28: Warning Message](image)

4. Insert the M5 Workstation Release 1.x CD-ROM and click OK. A message appears asking if you want to select the drive where the AspenTech OEM Historian CD-ROM is located (Figure 29).

![Figure 29: Setup Message](image)

5. Click Yes. A dialog appears asking for the path to the OEM Historian installation (Figure 30).
6. On the M5 Workstation Release 1.x CD-ROM that you inserted in Step 4, browse to the OEM Historian installation directory: \M5\histinst\aspntech\dbms. Click Next. The OEM Historian install begins. A Welcome screen appears.

7. Click Next. A warning appears reminding you to stop the OEM Historian (Figure 31).

Figure 30: Setup Dialog Box

Figure 31: Warning Message

8. Click OK. The Select Maintenance Options dialog box appears (Figure 32).
9. Click Remove All. The Start Remove All dialog box appears (Figure 33).

Figure 32: Select Maintenance Options Dialog Box

Figure 33: Start Remove All Dialog Box
10. Click Next. A dialog box appears that indicates which components are being removed. A Setup Error appears (Figure 34).

![Setup Error]

Figure 34: Setup Error

11. Click OK, as this is an expected error. The Setup Failed dialog box appears (Figure 35).

![Setup Failed Dialog Box]

Figure 35: Setup Failed Dialog Box

12. Click Finish. The message says the removal failed; however, the message is incorrect; the removal succeeded. An information screen appears (Figure 5) with a message explaining that the InfoPlus.21 installation is starting. Do not reboot when prompted at the end of the install.

13. Click OK. The Welcome and Software License dialog boxes appear.

14. Read and accept the license. The Enter License Keys Disk dialog box appears (Figure 6).
15. Insert the license floppy disk into the PC and browse to your floppy drive directory. Click Next. The Select Components dialog box appears (Figure 7).

16. Select a destination directory using the Browse button. We recommend leaving the default directory.

**IMPORTANT:** Leave the default that has all the components selected.

17. Click Next. The Select Program Folder dialog box appears (Figure 8).

18. Enter a program folder name. Click Next. The Enter GCS and SQLplus Information dialog box appears (Figure 9).

19. Leave the defaults and click Next. The Start Install dialog box appears (Figure 10).

20. Click Next. The Enter User Name and Password dialog box appears (Figure 11).

21. Enter the Windows NT system logon user name and password to create the Group 200 Windows NT service task.

    Note: This user **must** have administrator and Group 200 rights to run InfoPlus.21 Historian.

22. Click Next. After the InfoPlus.21 installation completes, the dialog box appears (Figure 36).

![Setup Complete Dialog Box – InfoPlus.21](image)
23. Click No. Click Finish. The Setup Complete dialog box appears (Figure 13).

24. Click Yes to reboot.

25. After the computer is rebooted, verify the InfoPlus.21 database is running in the InfoPlus.21 Manager.


27. Right-click on the Group 200 on XXX, (where XXX is the name of the machine where the database resides) and select Properties.

28. Click the Time Parameters tab, select the MM/DD/YY format, and click OK.

**Upgrading the InfoPlus.21 Server License**

Note: To increase the tag license count for InfoPlus.21 Historian, reinstall InfoPlus.21 Historian. Back up the existing database to save the data before following this procedure.

To upgrade the InfoPlus.21 server license:

1. Insert the M-Historian CD into the CD-ROM drive. The Welcome and Software License Agreement dialog boxes appear.

2. Read and accept the license. The Select Installation type dialog box appears (Figure 2).

3. Select Server and click Next. A question appears asking if you want to overwrite your database (Figure 37).

4. Click No. The Setup Upgrade message appears (Figure 38).

Note: Selecting Yes deletes the current database.
5. Click Yes. The Select Maintenance Options dialog box appears (Figure 39).

6. Select Upgrade/Reinstall. The Enter License Keys Disk dialog box appears (Figure 6).

7. Insert the license floppy disk into the PC and browse to your floppy drive directory. Click Next. The Enter GCS and SQLplus Information dialog box appears (Figure 9).

8. Leave the defaults and click Next. The Start Maintenance dialog box appears (Figure 40).
9. Click Next. The Enter User Name and Password dialog box appears (Figure 11).

10. Enter the Windows NT system logon user name and password to create the Group 200 Windows NT service task.

Note: This user must have Windows NT Administrator and Group 200 rights to run InfoPlus.21 Historian.

11. Click Next. After the InfoPlus.21 installation completes, the Setup Complete dialog box appears (Figure 41).
WARNING: Possible Data Loss. Do not reboot your computer. The InfoPlus.21 Historian will not work. If you reboot here, you must reinstall M-Historian.

12. Click No. Click Finish. The Setup Complete dialog box appears (Figure 13).

13. Click Yes to reboot.
Uninstalling the InfoPlus.21 Server

IMPORTANT: Use the following procedure for uninstalling the InfoPlus.21 server. If you uninstall the server, you lose all your current data. Back up your data before uninstalling. Refer to the *Commissioning AspenTech InfoPlus.21 Historian Technical Bulletin (LIT-646300).*

To uninstall the InfoPlus.21 server:

1. Insert the M-Historian CD into the CD-ROM drive. The Welcome and Software License Agreement dialog boxes appear.

2. Read and accept the license. The Select Installation type dialog box appears (Figure 2).

3. Select Server and click Next. A question appears asking if you want to overwrite your database (Figure 37).

4. Click No. The Setup Upgrade message appears (Figure 38).

Note: Selecting Yes deletes the current database.

5. Click Yes. The Select Maintenance Options dialog box appears (Figure 39).

6. Select Remove All.
Uninstalling an InfoPlus.21 Client

To uninstall an InfoPlus.21 client:

1. Insert the M-Historian CD into the CD-ROM drive. The Welcome and Software License Agreement dialog boxes appear.

2. Read and accept the license. The Select Installation type dialog box appears (Figure 2).

3. Select Client and click Next. The Select Maintenance Options dialog box appears (Figure 42).

4. Select Remove All.

Figure 42: Select Maintenance Options Dialog Box